

DYNAMIC SCALABLE FULL-PARALLAX  
THREE-DIMENSIONAL ELECTRONIC DISPLAY

5      ABSTRACT OF THE DISCLOSURE

A system and method are provided to form a large scale full-parallax three-dimensional electronic display. Multiple lenslet pixel modules are preferably formed by 10 combining a high resolution two-dimensional image sources with respective lenslets. For some applications each pixel module has a respective two-dimensional high resolution image source. For other applications two or more lenslet pixel modules may use respective portions of 15 the same high resolution two-dimensional image source. One or more computer processing units may be used to provide video images or graphical image data to the high resolution two-dimensional image sources. For some electronic displays, the lenslet pixel modules form an 20 array of projectors and an array of sensors may be disposed within the array of projectors. The array of sensors may cooperate with the array of projectors to allow interaction between one or more observers and a three-dimensional image produced by the projector array.